

coordinate input device includes wheel rotating state detection means and that the rotating body state detection is means for detecting a rotating state of said rotating bodies.

Accordingly, claims 1, 2 and 11 should be allowable for at least similar reasons as the prior claims 1, 9 and 10. Further, independent claim 12, which includes features similar to claim 2, should be allowable for similar reasons, as well as for the additional feature recited therein.

Claims 3-9, 13-17 and 20-21 have been rewritten from prior claims 2-8, and 11-17 and present no new features and no new issues.

It is submitted that the application is in condition for allowance. An early action to that affect is courteously solicited.

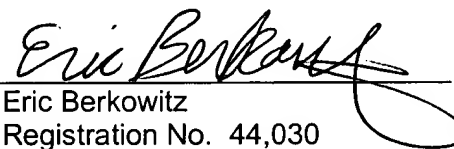
If there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Date: 7/19/02

By: 
Eric Berkowitz
Registration No. 44,030

700 Eleventh Street, NW, Suite 500
Washington, D.C. 20001
(202) 434-1500

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Please **AMEND** claims 1-17 and 20-21 in accordance with the following:

1. (TWICE AMENDED) A coordinate input device having a wheel that can be operated through rotation, comprising:
 - a plurality of rotating bodies disposed along a circumferential edge of said wheel[,] and rotatable on said circumferential edge as an axis of rotation;
 - rotating body rotating state detection means for detecting a rotating state of said rotating bodies;
 - wheel rotating state detection means for detecting a rotating state of said wheel;
 - a format change-over switch; and
 - data transmission means for transmitting information detected by each of said respective [the] detection means as a set of operation instructions for a computer and adapted to effect transmission in a first format when said format change-over switch is not depressed and to effect another transmission in a second format when said format change-over switch is depressed.
2. (TWICE AMENDED) [The] A coordinate input device having a wheel that can be operated through rotation, comprising:
 - a plurality of rotating bodies disposed along a circumferential edge of said wheel and rotatable on said circumferential edge as an axis of rotation;
 - rotating body rotating state detection means for detecting a rotating state of said rotating bodies;
 - ball moving state detection means for detecting a moving state of a ball;
 - click switch operating state detection means for detecting an operating state of a click switch;
 - wheel rotating state detection means for detecting a rotating state of said wheel;
 - a format change-over switch; and
 - data transmission means for transmitting respective pieces of information detected by said respective detection means as a set of operation instructions for a computer and adapted to effect transmission in a first format when said format change-over switch is not depressed

and to effect another transmission in a second format when said format change-over switch is depressed [as set forth in claim 1, wherein said coordinate input device has a left click switch as a first switch and a right click switch as a second switch, said coordinate input device further comprising:

a third switch disposed as a lower portion of said wheel,
a wheel support portion having a construction to support said wheel and to allow said wheel to slide and adapted to drive said third switch by depressing said wheel downwardly; and
third switch operating state detection means for detecting the operating state of said third switch].

3. (TWICE AMENDED) The coordinate input device as set forth in claim [2] 1, wherein said coordinate input device has a left click switch as a first switch and a right click switch as a second switch, said coordinate input device further comprising:

a third switch disposed as a lower portion of said wheel;
a wheel support portion having a construction to support said wheel and to allow said wheel to slide and adapted to drive said third switch by depressing said wheel downwardly; and
third switch operating state detection means for detecting the operating state of said third switch [further comprises a ratchet construction on a side of said wheel, and wherein said wheel is adapted to fit in said ratchet construction].

4. (TWICE AMENDED) The coordinate input device as set forth in claim [1] 3, wherein
said wheel support portion further comprises a ratchet construction on a side of said wheel, and wherein

said wheel is adapted to fit in said ratchet [an inner wall at a center of said respective rotating bodies through which said circumferential edge is put has a locking construction, and wherein

said circumferential edge is adapted to fit in a second locking] construction.

5. (TWICE AMENDED) The coordinate input device as set forth in claim 1, wherein
an inner wall at a center of said respective rotating bodies through which said circumferential edge is put has a locking construction, and wherein

said circumferential edge is adapted to fit in a second locking construction [said rotating

body is of a cylindrical configuration].

6. (TWICE AMENDED) The coordinate input device as set forth in claim 1, wherein said rotating body is of a cylindrical [spherical] configuration.

7. (TWICE AMENDED) The coordinate input device as set forth in claim 1, wherein said rotating body is of a spherical configuration [a surface of said rotating bodies is covered with a slip preventive material].

8. (TWICE AMENDED) The coordinate input device as set forth in claim 1, wherein a surface of said rotating bodies is covered with a slip preventive material [recess is formed in a surface of said rotating bodies].

9. (TWICE AMENDED) [A] The coordinate input device as set forth in claim 1, wherein a recess is formed in a surface of said rotating bodies [having a wheel that can be operated through rotation, comprising:

a plurality of rotating bodies disposed along a circumferential edge of said wheel and rotatable on said circumferential edge as an axis of rotation;

a rotating body rotating state detection unit detecting a rotating state of said rotating bodies;

ball moving state detection means for detecting a moving state of a ball;

click switch operating state detection means for detecting an operating state of a click switch;

a format change-over switch; and

data transmission means for transmitting respective pieces of information detected by said respective detection means as a set of operation instructions for a computer and adapted to effect transmission in a first format when said format change-over switch is not depressed and to effect another transmission in a second format when said format change-over switch is depressed].

10. (TWICE AMENDED) [A] The coordinate input device as set forth in claim 1, wherein said coordinate input device further comprises:

ball moving state detection means for detecting a moving state of a ball; and

click switch operating state detection means for detecting an operating state of a click switch [having a wheel that can be operated through rotation, comprising:

a plurality of rotating bodies disposed along a circumferential edge of said wheel and rotatable on said circumferential edge as an axis of rotation;

a rotating body rotating state detection unit detecting a rotating state of said rotating bodies;

a format change-over switch; and

a data transmission unit transmitting information detected by each of said respective detection unit as a set of operation instructions for a computer and adapted to effect transmission in a first format when said format change-over switch is not depressed and to effect another transmission in second format when said format change-over switch is depressed].

11. (TWICE AMENDED) [The] A coordinate input device having a wheel that can be operated through rotation, comprising:

a plurality of rotating bodies disposed along a circumferential edge of said wheel and rotatable on said circumferential edge as an axis of rotation;

rotating body rotating state detection means for detecting a rotating state of said rotating bodies;

a wheel rotating state detection unit detecting a rotating state of said wheel;

a format change-over switch; and

a data transmission unit transmitting information detected by each of said respective detection units as a set of operation instructions for a computer and adapted to effect transmission in a first format when said format change-over switch is not depressed and to effect another transmission in a second format when said format change-over switch is depressed [as set forth in claim 10, wherein said coordinate input device has a left click switch as a first switch and a right click switch as a second switch, said coordinate input device further comprising:

a third switch disposed as a lower portion of said wheel;

a wheel support portion to support said wheel and to allow said wheel to slide and adapted to drive said third switch by depressing said wheel downwardly; and

a third switch operating state detection unit detecting the operating state of said third switch].

12. (TWICE AMENDED) [The] A coordinate input device having a wheel that can be operated through rotation, comprising:

a plurality of rotating bodies disposed along a circumferential edge of said wheel and rotatable on said circumferential edge as an axis of rotation;

a rotating body rotating state detection unit detecting a rotating state of said rotating bodies;

a ball moving state detection unit detecting a moving state of a ball;

a click switch operating state detection unit detecting an operating state of a click switch;

a wheel rotating state detection unit detecting a rotating state of said wheel;

a format change-over switch; and

a data transmission unit transmitting respective pieces of information detected by said respective detection units as a set of operation instructions for a computer and adapted to effect transmission in a first format when said format change-over switch is not depressed and to effect another transmission in a second format when said format change-over switch is depressed [as set forth in claim 11, wherein said wheel support portion further comprises a ratchet construction on a side of said wheel, and wherein said wheel is adapted to fit in said ratchet construction].

13. (TWICE AMENDED) The coordinate input device as set forth in claim [10] 11, wherein said coordinate input device has a left click switch as a first switch and a right click switch as a second switch, said coordinate input device further comprising:

a third switch disposed as a lower portion of said wheel;

a wheel support portion to support said wheel and to allow said wheel to slide and adapted to drive said third switch by depressing said wheel downwardly; and

a third switch operating state detection unit detecting the operating state of said third switch [an inner wall at a center of said respective rotating bodies through which said circumferential edge is put has a locking construction, and wherein said circumferential edge is adapted to fit in a second locking construction].

14. (TWICE AMENDED) The coordinate input device as set forth in claim [10] 13, wherein said wheel support portion further comprises a ratchet construction on a side of said

wheel, and wherein said wheel is adapted to fit in said ratchet construction [rotating body is of a cylindrical configuration].

15. (TWICE AMENDED) The coordinate input device as set forth in claim [10] 11, wherein an inner wall at a center of said respective rotating bodies through which said circumferential edge is put has a locking construction, and wherein said circumferential edge is adapted to fit in a second locking construction [said rotating body is of a spherical configuration].

16. (TWICE AMENDED) The coordinate input device as set forth in claim [10] 11, wherein said rotating body is of a cylindrical configuration [a surface of said rotating bodies is covered with a slip preventive material].

17. (TWICE AMENDED) The coordinate input device as set forth in claim [10] 11, wherein said rotating body is of a spherical configuration [a recess is formed in a surface of said rotating bodies].

20. (ONCE AMENDED) The coordinate input device as set forth in claim [1] 11, wherein a surface of said rotating bodies is covered with a slip preventive material [said coordinate input device further comprises:

ball moving state detection means for detecting a moving state of a ball;

click switch operating state detection means for detecting an operating state of a click switch; and

wheel rotating state detection means for detecting a rotating state of said wheel].

21. (ONCE AMENDED) [A] The coordinate input device as set forth in claim 11, wherein a recess is formed in a surface of said rotating bodies [having a wheel that can be operated through rotation, comprising:

a plurality of rotating bodies disposed along a circumferential edge of said wheel, and being rotatable on said circumferential edge as an axis of rotation;

rotating body rotating state detection means for detecting a rotating state of said rotating bodies;

ball moving state detection means for detecting a moving state of a ball;

click switch operating state detection means for detecting an operating state of a click switch;

wheel rotating state detection means for detecting a rotating state of said wheel;

a format change-over switch; and

data transmission means for transmitting respective pieces of information detected by said respective detection means as a set of operation instruction for a computer and adapted to effect transmission in a first format when said format change-over switch is not depressed and to effect another transmission in a second format when said format change-over switch is depressed].